

## Message Text

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ACTION EB-08

INFO OCT-01 EUR-12 ISO-00 INT-05 TRSE-00 SS-15 SP-02  
NSC-05 L-03 OES-09 CIAE-00 INR-10 NSAE-00 DODE-00  
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TO USDOC WASHDC

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UNCLAS SECTION 1 OF 2 SOFIA 1521

USDOC FOR BEWT/TDAD

E.O. 11652: N/A

TAGS: BEXP, BTIO, BU

SUBJECT: GOB MINISTRY OF METALLURGY & MINERAL RESOURCES  
EQUIPMENT SPECIFICATIONS RESPONSES

REF: A) STATE 155800; B) SOFIA 1055; C) SOFIA 1418;  
D) SOFIA 1286; E) USDOC 13171; F) SOFIA 1383

1. SUMMARY: AT JULY 24 MEETING, MINISTRY OF METALLURGY AND MINERAL RESOURCES OFFICIAL PROVIDED SPECIFICATIONS LISTS. AS FOLLOW UP TO THIS MEETING, MINISTRY FORWARDED ADDITIONAL SPECIFICATIONS LISTS TO EMBASSY ON JULY 27. MINISTRY INTENDS TO PROVIDE EMBASSY WITH SPECIFICATIONS LISTS FOR SOME EQUIPMENT FOR THIRD METALLURGICAL COMPLEX DURING SEPTEMBER. MINISTRY NOW PLANS THAT FIRST DEPUTY MINISTER DACHEV WILL TRAVEL TO US AFTER SEPTEMBER. END SUMMARY.

2. ON JULY 24 EMBOFF THIBAUT MET WITH ZHELYU MARKOV, CHIEF OF THE INTERNATIONAL COOPERATION DEPARTMENT OF THE MINISTRY OF METALLURGY AND MINERAL RESOURCES, TO REVIEW THE MUCH-DELAYED MINISTRY RESPONSES TO REF A QUESTIONS FROM DOC. DUE TO VACATIONS OF SPECIALISTS, THE MINISTRY  
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IS STILL OUTSTANDING ON SOME IMPORTANT EQUIPMENT REQUIREMENTS AND MARKOV HOPES TO HAVE THE SPECIFICATIONS DELIVERED TO EMBASSY DURING NEXT WEEK. THE MOST IMPORTANT ITEM IN THIS CATEGORY IS THE FACTORY FOR TIN PLATED SHEET METAL. MARKOV STATED THE SPECIFICATIONS FOR THIS REQUIREMENT ARE PREPARED IN BULGARIAN, BUT AN ENGLISH TRANSLATION WILL TAKE SEVERAL DAYS. MARKOV ADDED THAT THE MINISTRY HAS

APPROVAL FOR BUILDING THIS FACILITY AND IS PRESENTLY PLANNING ON A COMPLETION DATE OF 1981 OR 1982. ACCORDING TO MARKOV, THE MINISTER HAS USED REF A, PARA 2A QUESTIONS AS GUIDELINE FOR PREPARATION OF SPECIFICATIONS LIST FOR TIN PLATED SHEET METAL EQUIPMENT.

3. AFTER DELAY OF SEVERAL DAYS, MINISTRY FORWARDED FIVE "TECHNICAL INQUIRY" SPECIFICATIONS LISTS DEALING WITH REF B, PARA 3 ITEMS. THE LISTS ARE TOO LENGTHY FOR CABLE FORMAT AND ARE BEING FORWARDED BY POUCH TO TDAD. THE FOLLOWING ITEMS ARE KEYED TO REF B, PARA 3.

B. LINE FOR PRODUCTION OF BRASS STRIPS WITH RECTANGULAR AND OTHER MORE COMPLICATED SECTIONS. (THIS OF INTEREST TO SOUTHWIRE CO. OF CARROLLTON, GEORGIA. COMPANY TECHNICIAN HERZ WILL TELEPHONE DETAILS OF LIST TO COMPANY.)

H. TWO LISTS. THIN WALL COPPER PRODUCTION LINE UNDER COIL METHOD AND FURNACE FOR ANNEALING OF COPPER TUBES IN COILS.

J. THREE STRAND DRAWING BENCH FOR BRASS TUBES. AND A NEW ITEM:

METAL SLITTING CUTTER FOR THIN AND NARROW STRIPS OF COPPER AND BRASS.  
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4. MARKOV DISCUSSED SOME ISSUES DEALING WITH THE THIRD METALLURGICAL COMPLEX, WHICH INTRODUCES A CHANGE IN PROCE-

DURE FROM THAT REPORTED IN RZF C. WE QUERIED MARKOV ABOUT THE STATUS OF THE MINISTRY'S RESPONSES TO DOC QUESTIONS IN REF A,HPARA 4.A. CONCERNING QUALITY CONTROL EQUIPMENT USING NEW TECHNOLOGY DURING THE HOT ROLLING STAGE OF FERROUS METALS, WHICH WAS GIVEN US AS AN "URGENT" REQUIREMENT BY THE DIRECTOR OF PLANNING FOR TME COMPLEX. HE RESPONDED THAT THE MINISTRY INTENDED TO PROVIDE THE EMBASSY WITH EQUIPMENT SPECIFICATIONS LISTS IN SEPTEMBER FOR EQUIPMENT FOR THE THIRD METALLURGICAL COMPLEX IN THE AREAS OF QUALITY CONTROL, THE ROLLING MILL 300 FOR 800,000 TONS ANNUAL CAPACITY, AND THE SPZCIFIC QUALITY CONTROL ITEM CITED ABOVE. DOC WILL NOTE DISCREPANCY BETWEEN THIS STATEMENT AND THOSE MADE BY THE DIRECTOR OF PLANNING FOR COMPLEX IN REF C, WHERE WE WERE TOLD THAT MINISTRY EXPECTED TO FOLLOW ROUGH SCHEDULE OF BEGINNING DISCUSSIONS ON EQUIPMENT AFTER CONSULTATIONS ON BASIC ENGINEERING, OR SOMETIME IN 1979.

5. RE REF A, PARA 3, B AND F: BOTH ITEMS RELATE TO

COPPER, LEAD AND ZINC ORES. MARKOV STATED THAT MINISTRY IS HAVING PARTICULAR DIFFICULTY IN ORGANIZING GEOPHYSICAL SPECIALISTS FOR PREPARATION OF A SPECIFICATIONS LIST, BECAUSE THESE SPECALISTS SPEND SUMMER IN FIELD. MINISTRY EXPECTS TO HAVE DETAILS IN NEAR FUTURE. HOPEFULLY IDENTIFICATION OF ORES WILL ALLOW TDAD TO MAKE START ON THESE ITEMS.

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6. THE FOLLOWING SQCIFICATIONS LISTS ARE KEYED TO REF D,  
PARA 3:

A. MEASUREMENT INSTRUMENTS REQUIREMENT FOR THE  
ANALYSIS OF MELTED NON-FERROUS METALS IS FURTHER BROKEN  
DOWN TO THREE TOPICS:

(1) TEMPERATURE CONTROL OF COPPER AND VPPER ALLOY  
MELTS. TO EFFECT A CONSTANT TEMPERATURE CONTROL UP TO  
1300 DEGREES C.

(2) SUBSTANCE CONTROL OF MELTS CONTAINING COPPER,  
ZINC, TIN, LEAD, SULPHUR, CARBON, AND OXYGEN. TO REGULATE  
ACCORDING TO INZRNATIONAL STANDARDS.

(3) SUBSTANCE CONTROL OF SMALL QUANTITIES OF IMPURI-  
TIES IN COPPER AND COPPER ALLOYS. TO REGULATE RANGE  
ACCORDING TO INTERNATIONAL STANDARDS.

B. MEASUREMENT DEVICES FOR NON-FERROUS ROLLED YEET.  
PREFER NON-CONTACT METHOD TO MONITOR/CONTROL/GAUGE THICK-  
NESS WITH SHEET THICKNESS OF .05 TO 2.5MM AND PRECISION

ERROR MARGIN OF .1 TO .25 PERCENT. SEEK SURFACE QUALITY  
CONTROL OF THE SHEET FROM KNOTS, ROUGHNESS AND CHINKS (SIC).  
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C. THIS ITEM REMAINS OUTSTANDING.

D. ORE DRESSING PROCESSES: EQUIPMENT FOR ANALYSIS  
IN FLOW PROCESS AT THE FLOTATION (DRESSING) PLANTS IN  
NON-FERROUS METALLURGY. CONDITIONS FOR ANALYSIS: LEAD,  
ZINC, COPPER AND SULPHUR IN PULP FLOW AT THE FLOTATION  
PLANT WITH THE FOLLOWING CHARACTERISTICS: A) SOLIDS CONTENTS  
OF 20.45 PERCENT, B) SIZE OF PARTICLES ARE 45 TO 90 PERCENT  
CONTENTS OF THE CLASS 200 MESH C) RELATIVE WEIGHT OF THE MATERIAL  
IS 2.65 TO 3.5 GRAMS PER CUBIC CM. TYPE OF MATERIAL IS ORE,  
CONCENTRATE, WASTE MATERIAL AND INTERMEDIATE PRODUCTS.  
CYCLE OF ANALYSIS IS 10-20 MINUTES. REQUIRE A TECHNOLOGICAL  
BALANCE OF THE METAL TO BE DONE FOR EACH CYCLE AND AVERAGE  
PER SHIFT. THE PRECISION OF DETERMINATIONS SHOULD BE ON  
THE PRECISION LEVEL OF THE CLASSICAL CHEMICAL ANALYSIS.

E. CONTROL VALVES FOR STEEL PROCESSING: MINISTRY  
PROVIDED TWO SPECIFICATIONS LISTS FOR OXYGEN CUT-OFF  
VALVES AND OXYGEN REGULATING VALVES WHICH EMBASSY FORWARDED  
TO TDAD ON JULY 25.

7. FIRST DEPUTY MINISTER DACHEV TRAVEL: MARKOV TOLD US  
THAT MINISTRY NOW BELIEVES THAT DACHEV SHOULD TRAVEL SOME-  
TIME THIS FALL, PROBABLY AFTER SEPTEMBER. HIS SEEMS TO  
BE A REASONABLE ADJUSTMENT, AS MINISTRY WILL BE IN BETTER  
POSITION ON QUESTIONS INVOLVING THE THIRD METALLURGICAL  
COMPLEX AND RESPONSES FROM AMERICAN FIRMS ON DETAILED  
SPECIFICATIONS LISTS LIKE WE ARE NOW FORWARDED TO TDAD WILL  
TAKE INTERVENING PERIOD TO PROCESS WITHIN THE MINISTRY.

8. RE REF D, PARA 2 AND 3: WE HAVE PASSED TO MINISTRY  
REF D, PARA 2 QUESTIONS AND CONTENTS OF TELEX FROM  
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PULLMAN KELLOGG CONCERNING CHEMICAL PLANT. ON FINANCING  
AND BUY-BACK, WE DO NOT HAVE ANY INDICATIONS ON THESE  
QUESTIONS AT THIS TIME.  
GARTHOFF

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